PHENIX

TECHNICAL SUPPORT ZOIZ

PHENIX WEEKLY PLANNING

12/13/12

Don Lynch

This Week

TECHNICAL SUPPORT 2012

- Continue installing VTX/FVTX (continue connecting cabling and services)
- Add several backup MTP fibers from CH to IR - Done
- Move EC to IR - Done
- Restore EC services - Done
- Move MMS to run position
- Re-install MuID Collars
- Re-install EC dumbwaiter and ladder (evaluate ladder safety?)
- Complete VTX Cooling System Upgrade - Done
- Continue RPC3 Gas Recirculation Upgrade
- Continue working on RPC3 shielding
- Continue window Washer safety upgrades
- Continue sPHENIX design support
- Continue MPC-Ex design support
- Begin Pink/White/Blue sheets

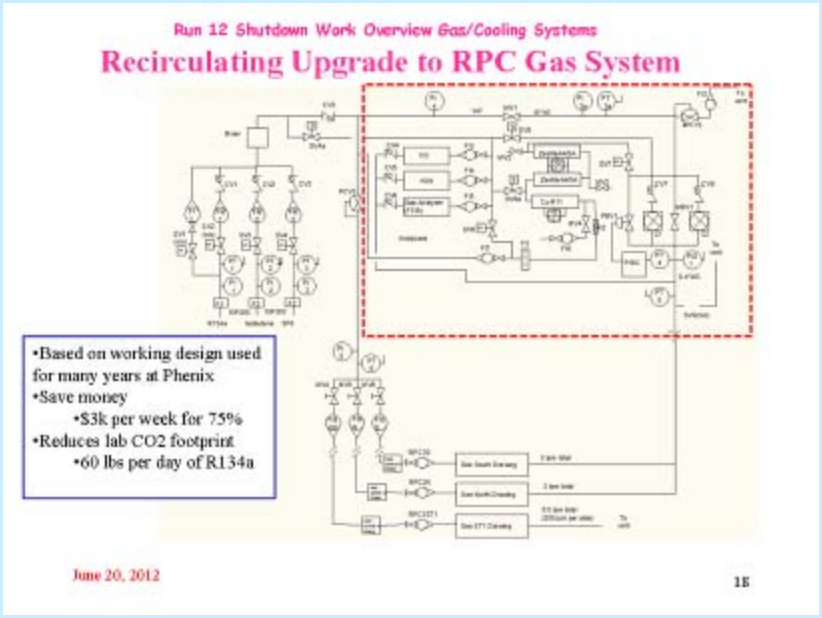
PHENIX

Next Week

TECHNICAL SUPPORT 2012

- Continue installing VTX/FVTX (continue connecting cabling and services)
- Move MMS to run position
- Re-install MuID Collars
- Re-install EC dumbwaiter and ladder (evaluate ladder safety?)
- Continue RPC3 Gas Recirculation Upgrade
- Continue working on RPC3 shielding
- Continue window Washer safety upgrades
- Continue sPHENIX design support
- Continue MPC-Ex design support
- Continue Pink/White/Blue sheets

TECHNICAL SUPPORT 2012



RPC Recirculation Upgrade

Recirculation Piping installation – Done

GMH rack in progress
Purification system controls assembly, installation and testing – D. Northacker in progress

PC upgrade - Done

Analyzer procurement in process (~4 months)

VTX/FVTX Cooling Upgrade

- Piping ~ done
- New filtration syste[illegible] connected
- Big Wheel manifold[illegible] installation at 1008
- Chiller 1 repair don[illegible]

Completed

RPC Background Attenuation Project

Looking towards RPC3 North
← East West →

Looking towards RPC3 South
← West East →

Large shielding modifications at Q2 upstream north and south to be planned and installed by CA-D (Dave Phillips) by 12/14/2012. In progress this week

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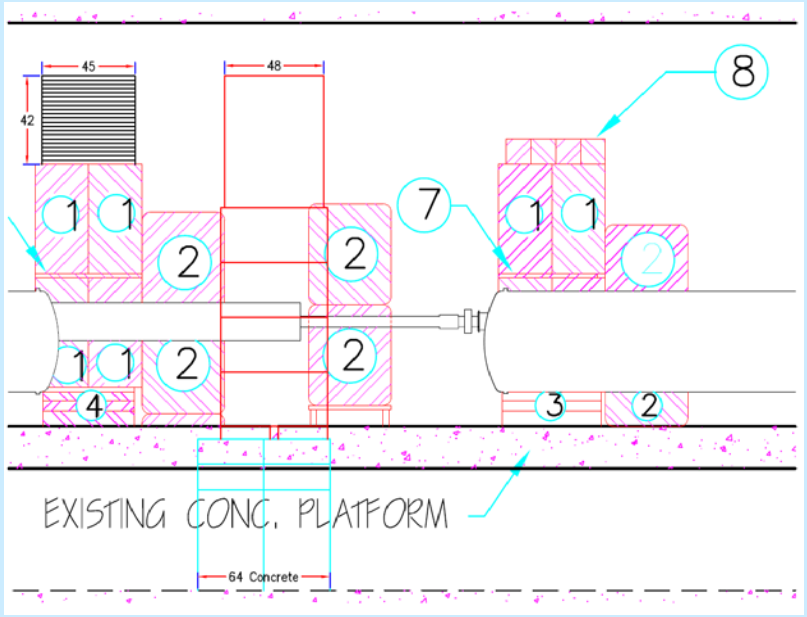
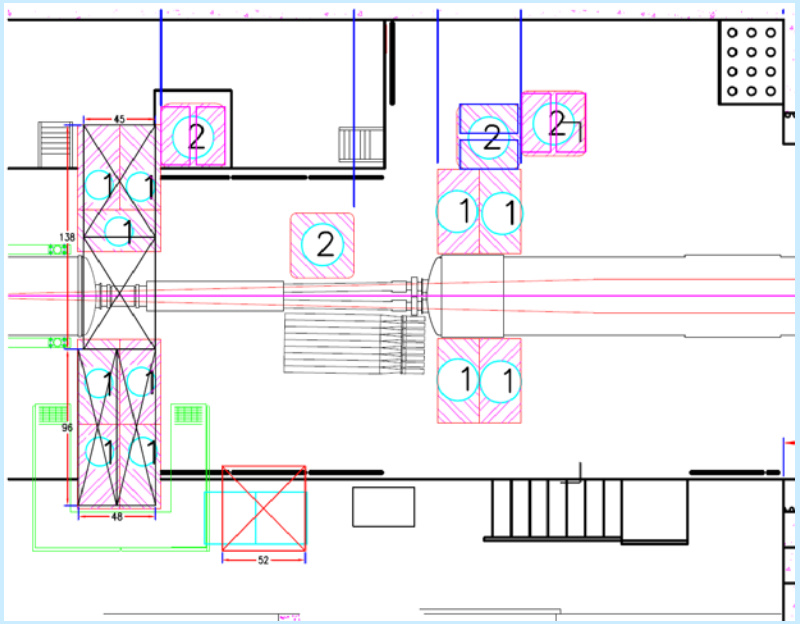
TECHNICAL SUPPORT 2012

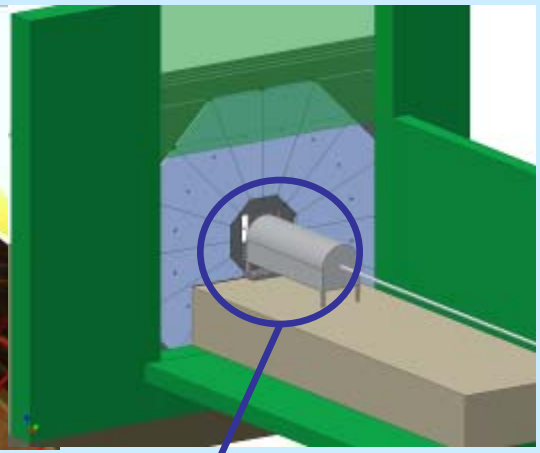


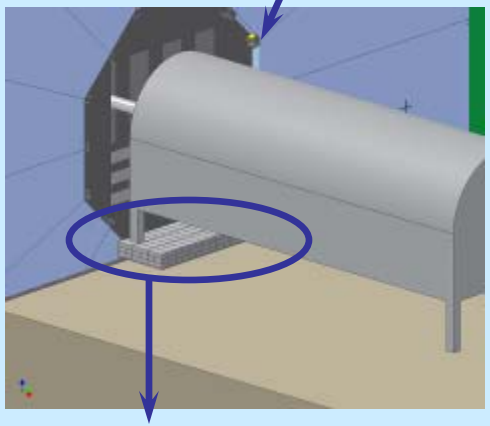


RPC Background Attenuation Project

TECHNICAL SU

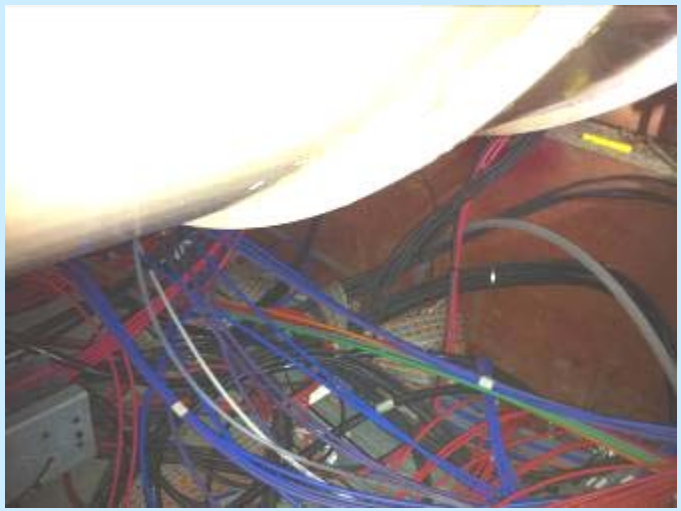
Under DX at RPC3 North
← East West →





144 Steel bricks, 2x4x8, stacked in 3 high, 16 wide, 3 rows, respectively by 11/21

Under DX at RPC3 South
← West East →



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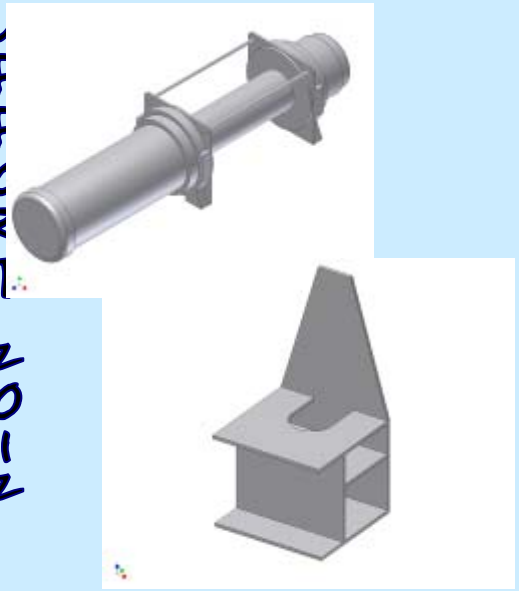
TECHNICAL SUPPORT 2012

Window Washer Remote Pin Removal and Winch/spooler safety upgrades

Space available:
16.5" x 27" x 28" h



Other Subsystem Work and Future Upgrades related Work

PHENIX Electronics Upgrades

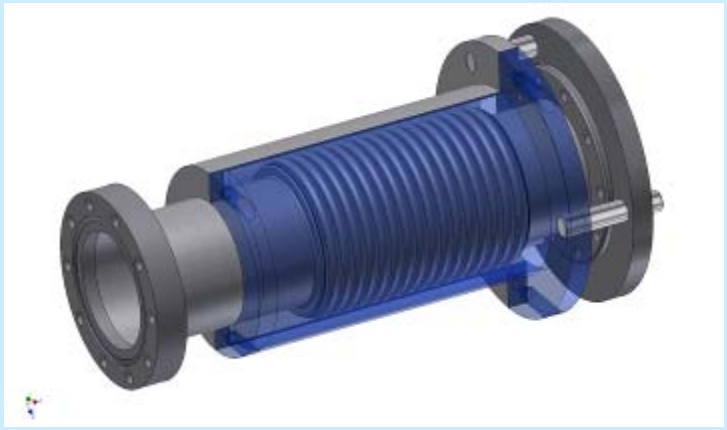
1. Install second MODBUS server in counting house. - TBD

Additional Work for 2012, not yet scheduled, to be fit in as available

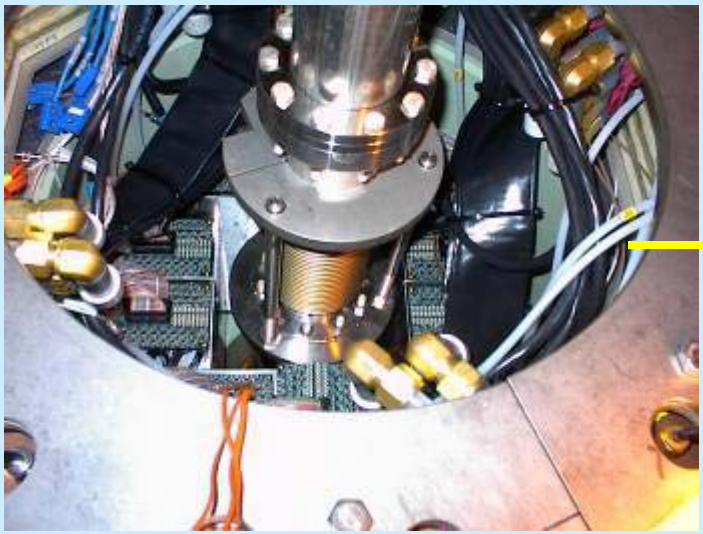
1. identify obsolete services passing through sill and remove them. - As time is available
2. Cover for services coming from IR through sill. – After Shutdown
3. Plan for stripping out TEC electronics and services to free up TEC racks. - As time is available

TECHNICAL SUPPORT 2012

Existing vacuum bellows anti-squirm
In MPC S Cavity

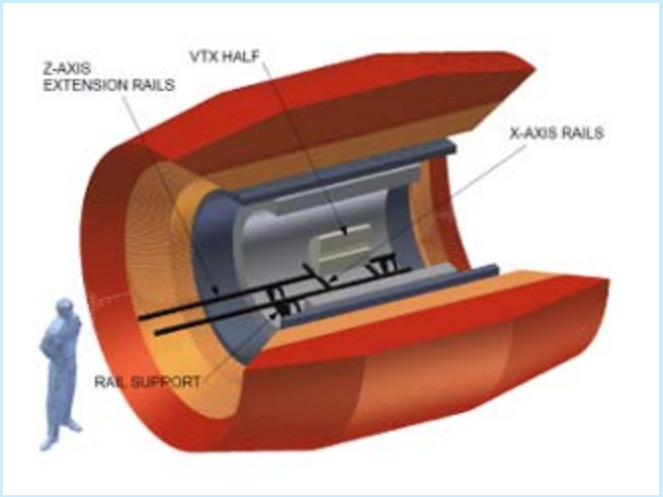


Proposed vacuum bellows anti-squirm
In MPC S Cavity to accommodate MPC-Ex



MPCS Flat cables replaced with round cables.

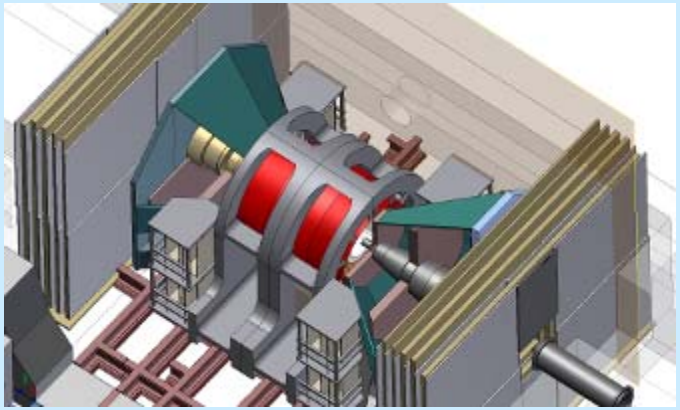
sPHENIX Proposed Upgrade

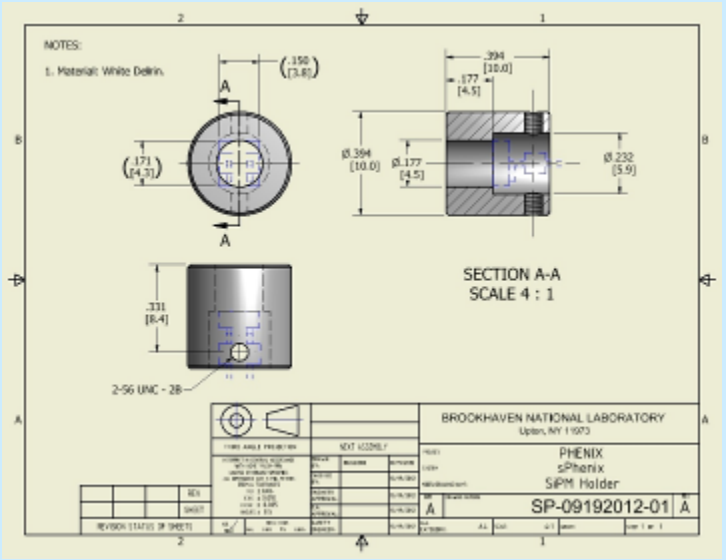


Work continues evaluating engineering tradeoffs for EMCal and HCal design, materials, etc.

BNL Review last week

Prototype HCal and EMCal in progress





Silicon Photo Multiplier Holder

2012 Shutdown Schedule (Continued)

TECHNICAL SUPPORT 2012

Add several backup MTP fibers from CH to IR – November	Done
MuID Collars to IR, plates, manlift and 12 ton cart to AH, & Roll in EC	Done
VTX Cooling System Upgrades	Done
Prep IR for run	12/7-12/21/2012
RPC Recirculation Upgrade (except analyzer)	12/21/2012
RPC Shielding under DX magnets	12/21/2012
Window Washer pin & spool upgrades	12/21/2012
Christmas Holidays	12/21-1/1/2013
RPC tunnel Shielding (Dave Phillips)	1/11/2013
Pre-run commissioning and prep for run 13	1/11/2013
Pink/Blue/White sheets	12/12/12-1/11/2013
Start run 13	2/11/2013

Safety, Security, Etc.

1. PHENIX Annual Safety Review - (Don, Paul, Rob)
2. New SBMS Subject Area: Machine Shop Safety

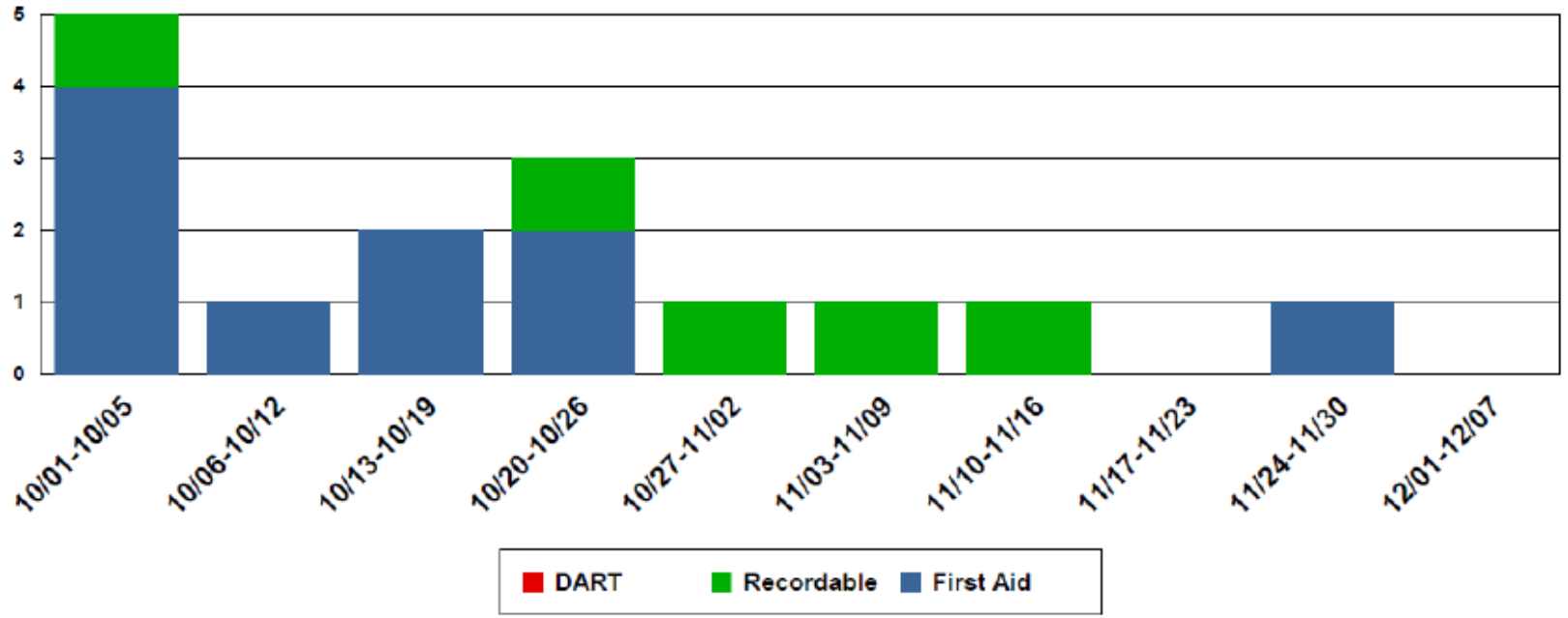
   https://sbms.bnl.gov/sbmsearch/subjarea/223/223_SA.cfm
3. Carpenter Injured at PHENIX AH/IR yesterday

Safety and Security

Recent Events		
12/4/12	Non-Reportable	A fire alarm was set off in building 421. Smoke from a nearby soldering operation was determined to be the cause. There was no fire. (Event Link)
11/16/12	Non-Reportable	Ground water monitoring wells on the Princeton Avenue fire break have been found to be damaged. They had been covered by debris, dumped by a contractor. Initial discovery was on or about November 16th. Details were uncovered on or about November 29th. Current estimate of damage to the broken well casings is estimated to be ~$2000.00. (Event Link)

TECHNICAL SUPPORT 2012

Injuries Per Week (FY)
As of 12/7/2012



Injury Status:

FY13 YTD: DART – 0, TRC – 5, First Aid – 10
FY12: DART – 17, TRC – 35, First Aid – 70
FY11: DART – 30, TRC – 44, First Aid – 45

FY12 Injury Listing: https://intranet.bnl.gov/esh/shsd/seg/OccInj/BNLInjuries.aspx

Recent Injuries		
		None

Where To Find PHENIX Engineering Info

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm